## Rangeland Health—Ecological Reference Worksheet

TECHNICAL GUIDE Section II

Author(s)/participant(s): M. Rasmussen		Section 1.
Contact for lead author:	Reference site used? Y	Zes/No
	Ecological Site: Clayey steep 10-14" p.z.	This <i>must</i> be verified
based on soils and climate (see Ecological Site Description		
<ul> <li>Indicators. For each indicator, describe the potential values for above- and below-average years for <u>each</u> communities on separate sheet.</li> <li>Number and extent of rills: Rills should not be present.</li> </ul>	munity within the reference state, when appropriate & (	
Trumber and extent of rings range most be prese		
2. Presence of water flow patterns: Barely observable.		
3. Number and height of erosional pedestals or terrac	cettes: Essentially non-existent.	
<b>4.</b> Bare ground from Ecological Site Description or or ground): Bare ground 20 to 40% consisting of randomly		
5. Number of gullies and erosion associated with gull with a good vegetative cover.	ies: Active gullies should not be present. Existing gull	ies should be "healed"
6. Extent of wind scoured, blowouts and/or deposition	nal areas: None.	
7. Amount of litter movement (describe size and distaremains in place and is not moved by erosional forces.	nce expected to travel): Little to no plant litter move	ement. Plant litter
8. Soil surface (top few mm) resistance to erosion (staboth plant canopy and interspaces, if different): Plant integrity. Stability class anticipated to be $5-6$ .	cover and litter is at 60% or greater of soil surface and	maintains soil surface
9. Soil surface structure and SOM content (include ty plant canopy and interspaces, if different): Use soil ser		nd thickness for both
10. Effect of plant community composition (relative prinfiltration & runoff: High grass canopy and basal cover overland flow, providing increased time for infiltration to runoff. Infiltration rates are moderate to moderately slow	r and small gaps between plants should reduce raindrop occur. Healthy, deep rooted native grasses enhance in	impact and slow
11. Presence and thickness of compaction layer (usual compaction on this site): None.		mistaken for
12. Functional/Structural Groups (list in order of descindicate much greater than, greater than, and equal to bunch grasses > mid-stature, cool season rhizomatous gra	): Mid-stature, cool season bunch grasses > mid-statu	
13. Amount of plant mortality and decadence (include Very low.	which functional groups are expected to show mor	tality or decadence):
14. Average percent litter cover (20 to 40 %) and dept	th ( 0.25 to 0.5 inches). Litter cover is in contact with	h soil surface.
<b>15. Expected annual production (this is TOTAL abov</b> 1250 to 1400_#/acre (13 to 14 inch precip. Zone) 800 to		
16. Potential invasive (including noxious) species (nativhich, after a threshold is crossed, "can, and often do, eventually dominate the site": annual bromes, blue gra	continue to increase regardless of the management	of the site and may
17. Perennial plant reproductive capability: All species	es are capable of reproducing.	

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